

MasterTile® FLX 22

Cement Based, High Performance, Granite, Marbel and Ceramic Adhesive

DESCRIPTION OF PRODUCT

MasterTile® FLX 22, is a cement based highly stable high performance adhesive used in adhesion of ceramics, granites, marbles, natural stones, glass mosaics, and ceramics.

Complies with the EN 12004-1 -C2T class.

C2= Cement based adhesive with improved additional properties

T= With reduced sliding


FIELDS OF APPLICATION

- Indoor and outdoor areas for vertical and horizontal applications
- In the adhesion of ceramics, granites, marbles and natural stones to cement based surfaces exposed to temperature differences
- In the wall and floor tiles of cold storage houses
- In ceramic and granite applications and repairs of building exteriors, in adhesion of ceramic on to ceramic

FEATURES AND BENEFITS

- Easy to prepare and apply.
- Long process time.
- No sliding in vertical applications.
- Resistant to freezing-thawing cycle.
- Resistant against tensions and vibrations rooting from temperature differences.

TECHNICAL DATA

Material Base	Mineral fillers, synthetic additives powder polymer and special cement.		
Color	Gray-White		
Bonding Strength	≥1,00 N/mm ² (28 days)		
Application Thickness	24 hours		
Joint Filler Period	Min. 3 mm Max. 8 mm		
Working Temperature	+5°C +25°C	WK	
Temperature Resistance	-40°C +80°C		
Maturity Period	3-5 minutes		
Usage Period	2 hours		
Open Time	20 minutes		
Sagging (mm)	None		
Wetting Ability	Min. %90		
Time to Wait Before Walking on it	24 hours		
Time to Wait Before Opening to Traffic	3 days		

APPLICATION PROCEDURE

Preparation of Substrate

Application surface has to be strong, dry, bearing, dustless, clean, and also in balance. Surface must be cleaned off all kinds of oil, grease, rust, and paraffin traces that can weaken adherence and no loose particles must be present. Disordered surface with 5 to 20 mm depth must be repaired with **MasterEmaco® S 488** repair mortars two days before the application. If the application surface is over +25°C, then it must be moisturized.

Mixing

Necessary amount of water is poured into a clean mixing container with the help of a scale. **MasterTile® FLX 22** is slowly added to the water and mixed with a 400-600 RPM mixer for 3-5 minutes until a homogenous and unumpy mixture is obtained. After resting it for approximately 3-5 minutes and mixing again for 30 seconds, the material is ready to use.

APPLICATION METHOD

1 mm **MasterTile® FLX 22** is applied on application surface with the flat side of trowel. In an area that can be covered in 30 minutes, period of open waiting, **MasterTile® FLX 22** is applied by serrated side of trowel in single direction in uniform thickness. In the adhesion of ceramics or granites with different thicknesses, to repair the disorder on application surface, it is suggested to apply 1 mm mortar under each ceramic or granite. When applying ceramics or granites to the place of application, ceramics or granites are floated on mortar to enable full contact of adhesion mortar. Suggested joint gap according to applied ceramic or granite dimension is left

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and the application is finished. To fill the left joint gaps, **Master Builders Solutions** joint grouts must be used. Grouting of joints can be realized after approximately 24 hours.

Mixing Ratio

MasterTile® FLX 22	1 kg Powder	20 kg Craft Pack
Mixture Amount	0,25 liter	6,25 liter
Mixture Density	1,67 kg/liter	

Suggested Joint Width

Up to 5 cm x 5 cm	3 mm
Up to 15 cm x 15 cm	4 mm
Over 15 cm x 15 cm	6-8 mm

Suggested Notched Trowel Dimensions

Ceramic Dimensions	Ceramic Notched Trowel Dimensions	Mortar Bedding Thickness
Up to 5 cm x 5 cm	6 mm	~ 2-3 mm
Up to 15 cm x 15 cm	8 mm	~ 3 mm
Over 15 cm x 15 cm	10 mm	~ 4 mm

COVERAGE

1.33 kg/m² for a thickness of 1 mm adhesive

MasterTile® FLX 22	Ceramic Notched Trowel Dimensions and Coverage (kg/m ²)		
	6 mm	8 mm	10 mm
25 kg	3,99	5,32	6,65

Applicability Test of Adhesive (Period of Open Waiting)

Fingers are pressed on the adhesive applied surface. If the adhesive smeared on the fingers, application of ceramics or tiles is continued. If the fingers are clean, it means the application time of adhesive has passed. In this case, the adhesive is scraped off the surface and new adhesive is applied.

- **MasterTile® FLX 22** is spread thickness must not exceed 8 mm (min. 3 mm).
- Ceramics with high water absorption have to be watered well before application.
- Under no circumstances, water and new material must be added to drying **MasterTile® FLX 22** mixture.
- In exterior surface applications, the applied surface must be protected from excessive sunlight, wind, freezing, and rain for the first 24 hours.
- Dış yüzey uygulamalarında, kaplanmış yüzeyin ilk 24 saat aşırı güneş ışığı, rüzgar, don ve yağmurdan korunması gereklidir.

CLEANING OF TOOLS

All the tools and equipments must be cleaned by water after the application. After **MasterTile® FLX 22** is hardened, it can only be removed from the surface mechanically.

PACKAGING

25 kg polyethylene reinforced kraft bag

STORAGE

Must be stored in unopened original packing, and in cool and dry environment protected from freezing. In short-term storing, maximum 3 palettes can be stowed on top of each other and delivery has to be according to first in first out system. In long-term storing, the palettes must not be stowed on top of each other.

SHELF LIFE

12 months after the production date under appropriate storing conditions. Opened packages have to be stored by tightly sealing the bag, and must be used in one week.

HEALTH AND SAFETY PRECAUTIONS

It is dangerous to approach the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.

DISCLAIMER

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is only responsible for the quality of the product **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

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CONTACT INFORMATION

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20 Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti. Adres: Barbaros Mah. Begonya Sok. Nidakule Kuzey Ataşehir, C Kapısı No:3 E/5, 34746 Ataşehir İstanbul	
DOP NO: 03.12004.003.1	
TS EN 12004-1 MASTERTILE FLX 22 Kayma Özelliği Azaltılmış, Geliştirilmiş Çimentolu Yapıştırıcı (Improved Cementitious Adhesive with Reduced Slip Feature C2T	
Yangına Karşı Tepki (Reaction To Fire)	A1
Başlangıç Çekme Yapışma Kuvveti (Initial tensile adhesion strength)	≥ 1,0 N /mm ²
Isı ile yaşlandırıldıktan sonra çekme yapışma kuvveti (Tensile adhesion strength after heat ageing)	≥ 1,0 N /mm ²
Suya daldırıldıktan sonra çekme yapışma kuvveti (Tensile adhesion strength after water immersion)	≥ 1,0 N /mm ²
Donma-çözünme çevriminden sonra çekme yapışma kuvveti (Tensile adhesion strength after freeze-thaw cycles)	≥ 0,5 N /mm ²
Kayma (Slip)	≤0,5 mm
Açıkta durma zamanı: Yapışma mukavemeti (20 dakika sonra) (Open Time: Tensile adhesion strength(after not less than 20 minutes)	≥ 0,5 N /mm ²

	
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